WHAT IS CLAIMED IS:

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- An electrode device for measuring bio-signals of a human, comprising:
- a plurality of electrode sections which are contacted to the skin of a human body for measurement;
- a preamplifier section which is electrically connected with each electrode section via an electric wire; and
- a flexible section which is disposed between each electrode section and the preamplifier section, and is non-conductive and can be transformed flexibly.
 - 2. An electrode device for measuring bio-signals of a human, comprising:
 - a plurality of electrode sections which are contacted to the skin of a human body for measurement; and
 - a preamplifier section which is electrically connected with each electrode section via an electric wire and is made of flexible material which can be transformed flexibly.
- 3. An electrode device for measuring bio-signals of a human, comprising:
 - a plurality of electrode sections which are contacted to the skin of a human body for measurement; and
- a flexible section which contains a preamplifier section electrically connected with each electrode section via an electric wire, and is non-conductive and can be

transformed flexibly.

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- 4. The electrode device according to Claim 1, wherein the shape or size of said electrode section is set according to the measurement target region.
- 5. The electrode device according to Claim 1, wherein said flexible section or said flexible material is comprised of a plurality of layers, and the elastic coefficient of each layer is set according to the movement of the measurement target region.
- 10 6. The electrode device according to Claim 1, wherein the elastic coefficient in said flexible section or said flexible material is set so as to continuously change according to the movement of the measurement target region.